

**REMARKS**

Claims 1, 2 and 4-9 are pending. Claims 1, 4 and 5 have been amended. No new matter is presented.

Support for the amendments to claims 1 and 5 can be found in the specification at pg. 2, line 31 through pg. 3, line 9.

Claims 1 and 4 have been rejected under 35 USC 102(b) as anticipated by Yanai (U.S. Patent No. 5,915,347). The rejection is respectfully traversed.

Claim 1 has been amended to clarify that the coil current of the coil not supplied with a current is measured to determine an offset error. Yanai fails to teach or suggest this feature.

Yanai discloses that a current detecting circuit detects an actual current through a first coil 24 when the first coil 24 is supplied with a current. The current detecting circuit disclosed in Yanai does not measure the current of the first coil when only the second coil is supplied with a current (col. 7, lines 40-53). Thus, Yanai fails to teach or suggest that the coil current of the coil not supplied with a current is measured to determine an offset error. Thus, claim 1 is allowable over Yanai.

Claim 4 is allowable at least due to its dependency from claim 1. Applicants request that this rejection be withdrawn.

Claims 2, 5 and 8 have been rejected under 35 USC 103(a) as being unpatentable over Yanai in view of Bosley (U.S. Patent No. 4,690,371). The rejection is respectfully traversed.

Claim 2 depends from claim 1 is allowable at least in view of Yanai's failure to teach or suggest the features of claim 1, and Bosley's failure to compensate for the deficiencies of Lanai.

Claim 5 recites substantially the same feature discussed above in connection with claim 1, and is thus allowable for the same reasons claim 1 is allowable and further in view of Bosley's failure to compensate for the deficiencies of Lanai.

Claim 8 is allowable at least due to its indirect dependency from claim 5. Applicants therefore request that this rejection be withdrawn.

Claim 9 has been rejected under 35 USC 102(b) as anticipated by, or in the alternative, under 35 USC 103(a) as obvious over Yanai. The rejection is respectfully traversed.

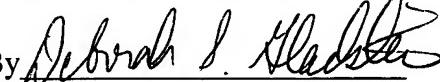
Claim 9 is allowable at least due to its dependency from claim 1. Applicants therefore requests that this rejection be withdrawn.

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejection of the claims and to pass this application to issue. If it is determined that a telephone conference would expedite the prosecution of this application, the Examiner is invited to telephone the undersigned at the number given below.

In the event the U.S. Patent and Trademark office determines that an extension and/or other relief is required, applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 449122021000. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

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Respectfully submitted,

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